

## GREEN ROCK

# Multi Mission Tactical Air Defense & C-RAM Radar System

> Green Rock is a combat proven tactical radar system for air-surveillance, Ground Based Air Defense (GBAD), and Counter-Rocket, Artillery & Mortar (C-RAM) missions. Designed for highly mobile maneuvering forces, the radar detects, tracks and classifies a wide variety of low and high speed aerial targets such as low flying fighter aircraft, helicopters, UAS, gliders and hovering platforms as well as low Radar Cross Section (RCS) rockets, artillery and mortar shells. The system is based on Gallium Nitride (GaN) 3D Active Electronically Scanned Array (AESA) planar antennas. The system is installed on high mobility vehicles and operates in a mobile (On-the-Move) or stationary mode. Green Rock can be deployed as a local air defense system providing warning and target designation to Surface-to-Air and Surface-to-Surface weapon systems, including SHORAD, VSHORAD and artillery guided munition, and as an air-surveillance Gap-Filler.

Data from Green Rock is securely delivered to command and control centers to provide Situational Awareness Pictures (SAP). In addition, COMINT, ELINT, IFF and EO sensors can be integrated with Green Rock to provide an expanded detection envelope, quicker response, better accuracy and lower false alarm rates.



Air Defense



CUAS



C-RAM

# Features

- Modular Design: available in Full, Half and Compact size configurations
- Dedicated tracking of High Priority Targets (HPT) & Track While Scan (TWS) of more than 100 targets
- Integrated with C2 centers via ASTERIX protocol
- Flexible resource allocation for target prioritization
- Precise calculation of Point of Origin (POO) and Point of Impact (POI)
- Fast deployment and unattended remote operation
- Extremely low false alarm rate
- No preventive maintenance required
- Highly reliable (high MTBF), no active cooling

# Specifications

Description		Compact Size	Half Size	Full Size
Frequency Band		S-Band		
Refresh Rate		1 Hz		
Refresh Rate for Priority Targets		4 - 10 Hz		
Spatial Coverage	Azimuth	90° ( Up to 360° per 4 antennas)		
	Elevation	60° - 75° (AD Mode), 90° (C-RAM Mode)		
Antenna	Type	GaN 3D AESA		
	Size (W x H)	27.6 x 11.8 in (70 x 30 cm)	27.6 x 19.7 in (70 x 50 cm)	27.6 x 39.4 in (70 x 100 cm)
	Weight	72.8 lbs (33 kg)	147.7 lbs (67 kg)	264.6 lbs (120 kg)
Instrumented Range		31.1 mi (50 km)	62.1 mi (100 km)	124.3 mi (200 km)
Power consumption (Single Array, 90°)		600 W	1100 W	2200 W
Detection Range	Heavy Mortars	Up to 3.1 mi (Up to 5 km)	Up to 6.2 mi (10 km)	Up to 9.3 mi (15 km)
	Ultralight UAV	9.3 - 15.5 mi (15 - 25 km)	15.5 - 24.9 mi (25 - 40 km)	24.9 mi - 37.3 (40 - 60 km)
	Fighter Aircraft	12.4 mi (20 km)	24.9 - 37.3 mi (40 - 60 km)	37.3 mi - 62.1 mi (60 - 100 km)

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